

REDUCTION RESISTANT THERMISTOR, METHOD OF PRODUCTION
THEREOF, AND TEMPERATURE SENSOR

ABSTRACT OF THE DISCLOSURE

A highly accurate reduction resistant thermistor exhibiting stable resistance characteristics even under conditions where the inside of a metal case of a temperature sensor becomes a reducing atmosphere, wherein when producing the thermistor comprised of a mixed sintered body $(M1\ M2)O_3 \cdot AO_x$, the mean particle size of the thermistor material containing the metal oxide, obtained by heat treating, mixing, and pulverizing the starting materials, is made smaller than $1.0\ \mu m$ and the sintered particle size of the mixed sintered body, obtained by shaping and firing this thermistor material, is made $3\ \mu m$ to $20\ \mu m$ so as to reduce the grain boundaries where migration of oxygen occurs, suppress migration of oxygen, and improve the reduction resistance.

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